

AMENDMENTS TO THE CLAIMS

Please make the following amendments to the claims:

1-48. (Cancelled).

49. (Currently Amended) A system comprising: a processor programmed to determine that there is a periodic transient in a communication system, wherein responsive to the processor determining that there is a periodic transient, the processor causes [[a]] data communications equipment to reduce a data transmission rate from an original rate to a lower rate, wherein the processor is further programmed to measure a length of time between consecutive transients.

50. (Previously Presented) The system of claim 49, wherein the processor is further programmed to determine a cadence of transients.

51. (Previously Presented) The system of claim 50, wherein the processor is further programmed to revise a cadence estimate for transients.

52. (Currently Amended) A method for reducing transmission errors in a communication system comprising:

determining that there is a periodic transient in the communication system;

responsive to determining that there is a periodic transient, causing [[a]] data communications equipment to reduce its transmission rate from an original rate to a lower rate;

and

causing the data communications equipment to restore its data transmission rate to the original rate after a predetermined period of time.

53. (Previously Presented) The method of claim 52, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.

54. (Previously Presented) The method of claim 52, further comprising determining a cadence of transient events corresponding to the periodic transient.

55. (Previously Presented) The method of claim 54, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.

56. (Currently Amended) A method for reducing transmission errors in a communication system comprising:
determining that there is a periodic transient in the communication system;
responsive to determining that there is a periodic transient, causing [[a]] data communications equipment to reduce its transmission rate from an original rate to a lower rate;
and

causing the data communications equipment to restore its data transmission rate to the original rate after failing to detect a transient for a predetermined period of time.

57. (Previously Presented) The method of claim 56, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.

58. (Previously Presented) The method of claim 56, further comprising determining a cadence of transient events corresponding to the periodic transient.

59. (Previously Presented) The method of claim 58, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.


60. (Currently Amended) A method for reducing transmission errors in a communication system comprising:

determining that there is a periodic transient in the communication system;

responsive to determining that there is a periodic transient, causing [[a]] data communications equipment to reduce its transmission rate from an original rate to a lower rate;

and

measuring the length of time between consecutive transients.

 61. (Previously Presented) The method of claim 60, further comprising the step of determining the cadence of transients.

62. (Previously Presented) The method of claim 61, further comprising the step of revising a cadence estimate for transients.

63. (Currently Amended) A method for reducing transmission errors in a communication system comprising:

determining that there is a periodic transient in the communication system;

responsive to determining that there is a periodic transient, causing [[a]] data communications equipment to suspend data transmission; and


after the occurrence of a subsequent transient, causing the data communications equipment to resume data transmission.

64. (Previously Presented) The method of claim 63, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.

65. (Previously Presented) The method of claim 63, further comprising determining a cadence of transient events corresponding to the periodic transient.

66. (Previously Presented) The method of claim 65, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.

67. (Currently Amended) A method for reducing transmission errors in a communication system comprising:

 determining that there is a periodic transient in the communication system;
responsive to determining that there is a periodic transient, causing [[a]] data communications equipment to suspend data transmission; and
after the lapse of a predetermined length of time, causing the data communications equipment to resume data transmission.

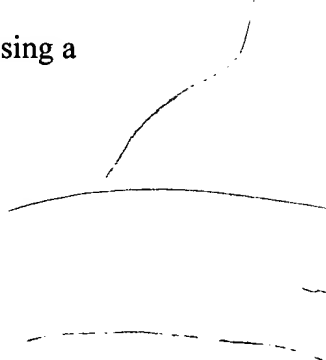
68. (Previously Presented) The method of claim 67, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.

69. (Previously Presented) The method of claim 67, further comprising determining a cadence of transient events corresponding to the periodic transient.

70. (Previously Presented) The method of claim 69, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.

71. (Currently Amended) A method for reducing transmission errors in a communication system, the method comprising:

determining that there is a periodic transient in the communication system;



responsive to determining that there is a periodic transient, causing [[a]] data communications equipment to suspend data transmission; and
after failing to detect a transient for a predetermined length of time, causing the data communications equipment to resume data transmission.

72. (Previously Presented) The method of claim 71, further comprising measuring a length of time between consecutive transient events corresponding to the periodic transient.

73. (Previously Presented) The method of claim 71, further comprising determining a cadence of transient events corresponding to the periodic transient.

74. (Previously Presented) The method of claim 73, further comprising revising a cadence estimate for transient events corresponding to the periodic transient.

75. (New) A method for reducing transmission errors in a communication system, the method comprising the steps of:

detecting a transient;
responsive to the detecting, collecting data related to one or more subsequent transients that occur over a first predetermined length of time;
calculating, based on the collected data, a second time for rate adjustment; and
at the second time, reducing the transmission rate from a first rate.

76. (New) The method claim 75, wherein the data comprises at least one of transient timing, transient duration, and transient rate.

77. (New) The method of claim 75, wherein the calculating step bases the second time on at least one of cadence interval variability, duration of transmission of a pending

message, maximum duration of to receiving a longest response message, and duration of transmission of a rate reduction command.

78. (New) The method of claim 75, further comprising the step of:
responsive to the detecting, reducing the transmission rate from a second rate;

79. (New) The method of claim 76, further comprising the step of:
after the collecting step, restoring the transmission rate to the second rate.

80. (New) The method of claim 75, further comprising the step of:
determining if the collected data is sufficient to calculate the second time for rate adjustment; and
repeating the collecting step if the collected data is not sufficient.

81. (New) The method of claim 75, further comprising the step of:
at a third time, restoring the transmission rate to the first rate, the third time based on an expected time of a next transient occurrence.

82. (New) A computer readable medium having a program for reducing transmission errors in a communication system, the program comprising logic for performing the steps of:
detecting a transient;
responsive to the detecting, collecting data related to one or more subsequent transients that occur over a first predetermined length of time;
calculating, based on the collected data, a second time for rate adjustment; and
at the second time, reducing or suspending the transmission rate.

83. (New) The method of claim 82, wherein the data comprises at least one of transient timing, transient duration, and transient rate.

84. (New) The method of claim 82, wherein the calculating step bases the second time on at least one of cadence interval variability, duration of transmission of a pending message, maximum duration of to receiving a longest response message, and duration of transmission of a rate reduction command.

85. (New) The method of claim 82, further comprising the step of:
responsive to the detecting, reducing the transmission rate from a second rate;

86. (New) The method of claim 85, further comprising the step of:
after the collecting step, restoring the transmission rate to the second rate.

87. (New) The method of claim 82, further comprising the step of:
determining if the collected data is sufficient to calculate the second time for rate adjustment; and
repeating the collecting step if the collected data is not sufficient.

88. (New) The method of claim 82, further comprising the step of:
at a third time, restoring the transmission rate to the first rate, the third time based on an expected time of a next transient occurrence.

89. (New) A system for reducing transmission errors in a communication system, the method comprising the steps of:
means for detecting a transient;

means for collecting data, responsive to the detecting, said data related to one or more subsequent transients that occur over a first predetermined length of time;

means for calculating, based on the data, a second time for rate adjustment; and

means for reducing, at the second time, the transmission rate from a first rate.

90. (New) The system of claim 89, wherein the data comprises at least one of transient timing, transient duration, and transient rate.

91. (New) The system of claim 89, wherein the calculating means bases the second time on at least one of cadence interval variability, duration of transmission of a pending message, maximum duration of to receiving a longest response message, and duration of transmission of a rate reduction command.

92. (New) The system of claim 89, further comprising:

means for reducing, responsive to the detecting means, the transmission rate from a second rate;

93. (New) The system of claim 89, further comprising:

means for restoring, after the data is collected, the transmission rate to the second rate.